

FRUIT TREE & VINEYARD PROJECT
2006 GROWING SEASON
APPLE VARIETY
DESCRIPTIONS, EVALUATIONS and RATINGS

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SCARLET GALA - EMLA 7: Beautiful color with bright red striping over an orange background. Mid-bloom, with moderate to large fruit size and moderate to heavy yields in SW Colorado. Recommend using central leader training to allow good light penetration. Moderate tree development but in the 8th & 9th seasons several trees have begun leaning requiring support. Root sprouts have become a real issue requiring 2 prunings a season. Matures early to mid September. 5 out of 6 seasons of fairly consistent fruiting with a huge 5.6bu./tree crop in 2001. 2000 Powdery Mildew outbreak did not affect this variety. 3 freezes in early 2002 eliminated the crop. Hail in 2003 eliminated the crop. Hail in July 2004 damaged the crop. Large Crop in 2005. Rating dropped ½ point due to leaning and sprout problems. 2006 good crop but we are eliminating 15 trees to make room for additional varieites. Planted 1992. ****½
RATING

NURED JONATHAN - MARK: This variety has been replaced with an improved version of this variety in 2000.

SWISS GOURMET - EMLA 7: Beautiful color with a bright red over a rich yellow background. Mid-bloom, medium sized fruit that even with light crop loads does not size-up -matures early to mid September. Excellent tree development on trellis system but fruit set & crop did not fare well through the Spring, 1999 cold snaps and the freezes of Spring 2000 completely ruined the crop. 2000 Powdery Mildew outbreak heavily affected this variety. Thin fruit skin makes this variety susceptible to light hail. Crop in 2001 was light to moderate and combined with other problems leads to a half point drop from a 3.5 to a 3 in the overall rating. 3 freezes in early 2002 eliminated the crop. Hail in 2003 eliminated the crop. Hail in July 2004 damaged the crop. For the first time crop was heavy and of excellent size. Large Crop in 2005 but minimal crop in 2006 due to May freeze. Rating increased ½ point. Planted 1995. ***
RATING

ROYAL EMPIRE - EMLA 7: Excellent dark red fruit that colors early. Mid-bloom, medium to large fruit that is fairly resistant to light hail. Matures mid September. Long shelf life. Excellent tree development on trellis system. The fruit set & crop did not fare well through the Spring 1999 cold snaps and the freezes of Spring

2000 completely ruined the crop. 2000 Powdery Mildew outbreak moderately affected this variety. Excellent yield in 2001 of 3.9bu./tree on a high density spacing. 3 freezes in early 2002 eliminated the crop. Hail in 2003 eliminated the crop. Hail in July 2004 damaged the crop. Large Crop in 2005 but minimal crop in 2006 due to May freeze. Planted 1995. **** **RATING**

LIBERTY - EMLA 7: Good fruit color with deep red over a slight yellow background, but the fruit has a tendency to be slightly irregular in shape. Mid-bloom, highly resistant to major apple diseases. Excellent tree development on trellis system but vigorous growth on EMLA 7 indicates that a more dwarfing rootstock is required on a trellis system - use EMLA 26. Large fruit size with consistent heavy production with excellent 2001 crop of 4.2bu./tree on a high density planting. 2000 Powdery Mildew outbreak moderately affected this variety. Proper pruning is essential to accommodate heavy fruit load. Thin fruit skin makes this variety highly susceptible to light hail. Matures a week to 10 days later than Scarlet Gala with late September to early October harvest. 3 freezes in early 2002 eliminated the crop. Hail in 2003 eliminated the crop. Hail in July 2004 damaged the crop. Large Crop in 2005 and same in 2006. Planted 1995. *** **RATING**

GOLDEN DELICIOUS - EMLA 26: Golden apple with an excellent light red blush that develops on sun exposed side. Mid-bloom, early heavy bearer with small to medium fruit, needs early thinning. Alternate bearing a possibility but an excellent crop with good size even through the adverse weather conditions of Spring, 1999. The freezes of Spring 2000 completely ruined the crop but the 2001 crop was excellent at 4.2bu./tree. 2000 Powdery Mildew outbreak moderately affected this variety. Mid to late September harvest. Moderate tree development in the 11th season. 3 freezes in early 2002 eliminated the crop. Hail in 2003 eliminated the crop. Hail in July 2004 damaged the crop. Large Crop in 2005 & 2006. Planted 1994. **** **RATING**

HONEY CRISP - EMLA 7: Excellent color with a scarlet red over a yellow background. Mid-bloom, large fruit, keeps well in storage-high quality. Good tree development but poor, low yields seem to be a chronic problem with this variety. 2000 Powdery Mildew outbreak did not affect this variety. Tree also tends to grow upright and requires substantial limb training. Mid September harvest. This was the only variety to have a significant crop in 2002. Large Crop in 2005 & 2006 but very inconsistent prior to this. May raise rating if there is a good 2007 crop. Planted 1995. ** **RATING**

RED FUJI - EMLA 9: Good color development with red stripe over a yellow-green background - better color than expected for Fuji's

grown in Colorado. Mid to late-bloom, late harvest mid October, very firm apple with excellent storage qualities that is very resistant to light hail. Excellent tree development on trellis system with medium to large fruit. Several seasons of consistent fruiting even through the adverse weather conditions of Spring, 1999. But the freezes of Spring 2000 completely ruined the crop. 2000. 2001 crop was excellent at 3.9bu./tree. Powdery Mildew outbreak heavily affected this variety. Heavy crop requires proper pruning to avoid limb breakage. Big market potential. 3 freezes in early 2002 eliminated the crop. Hail in 2003 eliminated the crop. Hail in July 2004 damaged the crop. Large Crop 2005. Fruit has tended to the small to mid size range so I am lowering rating ½ point in 2005 but minimal crop in 2006 due to May freeze. Planted 1995. ****** RATING**

RED JONAGOLD - EMLA 7:

Excellent red blush over a slight yellow background that makes a nice pie apple. Mid-bloom with late color development, small to medium fruit, susceptible to mildew but resistant to light hail. Very good tree development several seasons of fairly consistent, but light, fruiting even through the adverse weather conditions of Spring, 1999. The freezes of Spring 2000 completely ruined the crop. 2001 crop was excellent at 3.8bu./tree. 2000 Powdery Mildew outbreak did not affect this variety. Mid to late September harvest. 3 freezes in early 2002 eliminated the crop. Hail in 2003 eliminated the crop. Hail in July 2004 damaged the crop. Large Crop 2005 but minimal crop in 2006 due to May freeze. Planted 1994. ***** RATING**

LUSTRE ELSTAR - EMLA 26: Beautiful scarlet red blush over a yellow background, mid-bloom, medium fruit size. Good tree development but this variety has been susceptible to limb breakage, especially during the winter. Several seasons of fairly consistent fruiting even through the adverse weather conditions of Spring, 1999. Freezes of Spring 2000 completely ruined the crop. 2001 crop was excellent at 3.4bu./tree. 2000 Powdery Mildew outbreak heavily affected this variety. Mid to late September harvest. Resistant to light hail. 3 freezes in early 2002 eliminated the crop. Hail in 2003 eliminated the crop and hail in July 2004 damaged the crop. Large Crop 2005.but minimal crop in 2006 due to May freeze. Planted 1994. *****½ RATING**

SUPER JON - EMLA 7: Mid-bloom, dark red small to medium fruit good for pies and resistant to light hail. Very good tree development with several seasons of fairly consistent, but light, fruiting even through the adverse weather conditions of Spring, 1999. The freezes of Spring 2000 completely ruined the crop. 2001 crop was again light to moderate at 2.7bu./tree. 2000 Powdery Mildew outbreak did not affect this variety. Mid to late September harvest. 3 freezes in early 2002 eliminated the crop. Hail in 2003 eliminated the

crop. Hail in July 2004 damaged the crop. Large Crop 2005 and moderate crop in 2006. Planted 1994. *** RATING

MOR-SPUR McINTOSH - EMLA 7: Bright cherry red blush. Early, reported to be a heavy producer BUT NOT HERE SO FAR. Smaller tree size is good for high density plantings. Tree has a very good natural spread to limb development that requires little limb training. The freezes of Spring 2000 completely ruined the crop. 2001 crop was excellent at 3.0bu./tree. 2000 Powdery Mildew outbreak did not affect this variety. 3 freezes in early 2002 eliminated the crop. Hail in 2003 eliminated the crop. Hail in July 2004 damaged the crop. Large Crop 2005 but minimal crop in 2006 due to May freeze. Planted 1996. *** RATING

IMPROVED RED DELICIOUS - EMLA 7: Campbell strain that is highly striped with strong red color. Consistent medium to very large fruit that is mid-bloom. Upright tree growth requires substantial limb training. Poor tree development with fruit set & crop very light due to the Spring freezes of 1999. The freezes of Spring 2000 completely ruined the crop. 2001 crop was very light at 1.7bu./tree. This tree, on this rootstock, may be more suited for a high density planting on a trellis system than a field planting. I am also starting to wonder if the stated rootstock from the nursery may have been an error. 2000 Powdery Mildew outbreak did not affect this variety. 3 freezes in early 2002 eliminated the crop. Hail in 2003 eliminated the crop. Hail in July 2004 damaged the crop. Rating increased another ½ point in 2004 because of consistent, exceptional large fruit. Large Crop 2005 but minimal crop in 2006 due to May freeze. Planted 1996. *** RATING

ROYAL GALA - EMLA 26: Produces a beautiful fruit with red stripes over an orange-red undercolor. Medium sized fruit which may exhibit a wide variation of fruit coloration. Very good tree development so far with a moderate crop in the fourth season with excellent color. Powdery Mildew outbreak heavily affected this variety. 3 freezes in early 2002 eliminated the crop. Hail in 2003 eliminated the crop. Hail in July 2004 damaged the crop. Large Crop 2005 but minimal crop in 2006 due to May freeze. 1997 planting. ***½ RATING

MYRA RED FUJI - EMLA 26: Medium to large apple which colors up substantially. The finish color is a pinkish red. Matures 10 days earlier than Red Fuji. Very good tree development so far with a good crop in fourth season with excellent color. A 1bu./tree crop in 2001 is an excellent crop for a young, high density tree. 2000 Powdery Mildew outbreak moderately affected this variety. 3 freezes in early 2002 eliminated the crop. Hail in 2003 eliminated the crop. Hail in July 2004 damaged the crop. Large Crop 2005 but minimal crop in 2006 due to May freeze. 1997 planting. ***½ RATING

GRAVENSTEIN - EMLA 26: Large, red-striped, crisp and juicy. Excellent for cooking and pies. Hardy tree with very good tree development but it is important to note that this variety does mature up to 3 weeks earlier - last part of August to 1st week in September. There was a heavy crop in the fourth season but this variety is one of the earlier maturing varieties - mid to late August. 2001 crop was on the ground before data could be collected. 2000 Powdery Mildew outbreak heavily affected this variety. 3 freezes in early 2002 eliminated the crop. Hail in 2003 eliminated the crop. Hail in July 2004 damaged the crop. Large Crop 2005 but minimal crop in 2006 due to May freeze. 1997 planting. ***** RATING**

IDARED - EMLA 26: A solid, beautiful bright red apple. Tree development is slowing rapidly as the bud union is starting to swell considerably. This tree on EMLA 26 is better suited to a trellis system. 2001 crop was moderate for the amount of tree development. 2000 Powdery Mildew outbreak heavily affected this variety. Rating is lowered from a 3 to 2.5 because of the poor tree development. 3 freezes in early 2002 eliminated the crop. Hail in 2003 eliminated the crop. Hail in July 2004 damaged the very large crop. Lowering rating again in 2005 as poor tree development and limited crop does not make this variety very appealing. It really needs a more vigorous rootstock like EMLA 7. 1997 planting.

**** RATING**

LODI - EMLA 111: Yellow fruit large in size with very early maturity - mid to late August. On EMLA 111 excessive growth on trellis that is very hard to handle. This variety should be on a more dwarfing rootstock like EMLA 26. Powdery Mildew outbreak moderately affected this variety.

THESE TREES HAVE BEEN REMOVED FROM THE PROJECT.

RUBINSTAR JONAGOLD - EMLA 26: Intense red coloration that is uniform throughout the tree. Tree development has been moderate and needs to be watched for future progress. Matures one week ahead of Jonagold and is less susceptible to sunburn. A limited crop in fourth season and there were signs of Bitter Pit susceptibility. 2000 Powdery Mildew outbreak heavily affected this variety. 3 freezes in early 2002 eliminated the crop. Hail in 2003 eliminated the crop. Hail in July 2004 damaged the crop. Good crop in 2005 but minimal crop in 2006 due to May freeze. 1997 planting. ***** RATING**

SUN FUJI - EMLA 7: Extremely firm apple with a pinkish/red stripe over yellow-green ground color. The flesh is yellowish-greenish, dense and crisp. Flavor is sweet, fruity, slightly aromatic, sub-acid and very pleasant. High soluble solids. Outstanding keeper. Initial tree development is excellent and in 2001 had an excellent crop for the third season. 2000 Powdery Mildew outbreak did not affect this variety. 3 freezes in early 2002 eliminated the crop.

Hail in 2003 eliminated the crop. Hail in July 2004 damaged the excellent crop. Large Crop 2005 but minimal crop in 2006 due to May freeze. 1999 planting. **** RATING

GALAXY GALA - EMLA 7: This Gala's big difference to Royal is that it develops an almost complete, bright, cherry red layer under more intense red stripes. The degree of striping is similar to Royal Gala, but the color is more complete. Tree development is excellent and in 2001 had an excellent crop for the third season. 2000 Powdery Mildew outbreak did not affect this variety. 3 freezes in early 2002 eliminated the crop. Hail in 2003 eliminated the crop. Hail in July 2004 damaged the excellent crop. Large Crop 2005 & 2006. 1999 planting. **** RATING

IMPROVED GALA (Mitchell Cultivar) - EMLA 7: Bright red stripes over yellowish undercolor. Multiple pick apple. Noted for its increased color stability. Medium sized fruit. Outstanding flavor. Initial tree development is excellent and in 2001 had a good crop for the third season. 2000 Powdery Mildew outbreak did not affect this variety. 3 freezes in early 2002 eliminated the crop. Hail in 2003 eliminated the crop. Hail in July 2004 damaged the excellent crop. Large Crop 2005 & 2006. 1999 planting. **** RATING

PACIFIC GALA - EMLA 7: Ripens 5-7 days ahead of Royal Gala. The coloration of the fruit was observed to be distinctly different than the Tenroy cultivar and the Galaxy Gala, showing much higher color on 90 to 100% of fruit. Initial tree development is excellent and in 2001 had an excellent crop for the third season. 2000 Powdery Mildew outbreak did not affect this variety. 3 freezes in early 2002 eliminated the crop. Hail in 2003 eliminated the crop. Hail in July 2004 damaged the excellent crop. Large Crop 2005 & 2006. 1999 planting. **** RATING

PINOVA - EMLA 7: A medium sized apple with outstanding flavor, similar to Golden. Skin is a bright, florescent pinkish/red; 50 to 80% blush over yellow background. Flesh is firm, fine grained and cream color. Matures with Golden Delicious. Tree has a low to medium vigor. Pinova is cold hardy and very productive and in 2001 had a good crop for the third season.. 2000 Powdery Mildew outbreak did not affect this variety. 3 freezes in early 2002 eliminated the crop. Hail in 2003 eliminated the crop. Hail in July 2004 damaged the excellent crop. Large Crop 2005 but minimal crop in 2006 due to May freeze. 1999 planting. *** RATING

CAMEO - EMLA 7: Cameo is a pleasing bright red stripe over a golden blend with a sweet tart flavor. Prone to excessive suckering. The creamy white flesh shows virtually no browning when cut. Cameo stores and handles well retaining its firmness and dessert qualities for 5 months in regular storage. The tree has growing

characteristics similar to a golden delicious. This variety is harvested in mid to late September and in 2001 had a small crop for the third season. Initial tree development is excellent but upright growth and significant suckering continues to require significant limb training and pruning. If this continues to be a problem, I will have to lower the rating by ½ point next season. 2000 Powdery Mildew outbreak did not affect this variety. 3 freezes in early 2002 eliminated the crop. Hail in 2003 eliminated the crop. Hail in July 2004 damaged the excellent crop. Large Crop 2005 but lowered rating because of tree pruning and development problems. Fair crop in 2006. 1999 planting. **** RATING**

IMPROVED GOLDEN - EMLA 7: The finish is smoother to the touch in comparison to a regular Golden. Medium to large fruit that is Russet resistant. Initial tree development and fruiting are excellent. Limited crop in 2005 and good crop in 2006. 2000 Planting. **Rating *****

GOLDEN SUPREME - EMLA 7: Sweet flavor with smooth texture. Preferred as the cooking and eating golden delicious. Soft yellow finish may be touched with a red blush. Superior storage capabilities. Large fruit that is very smooth ready to harvest with the Galas. Russet resistant. Initial tree development and fruiting are excellent with and good crop in 2006. 2000 Planting. **Rating *****

NURED JOHNATHAN SPORT - EMLA 7: Dark red small fruit that is excellent for cooking. Excellent storage capabilities. Requires heavy thinning and is very cold hardy. Initial tree development and fruiting are excellent with small to medium fruit size. Limited crop in 2005 & 2006. 2000 Planting. **Rating *****

IMPROVED MCINTOSH - EMLA 26: Early maturing, mid September with very deep red color. A trellis planting. Tree growth and shape have been excellent. Limited fruit in 2006. Still evaluating for a rating in SW Colorado. 2002 PLANTING.

BUCKEYE GALA - EMLA 7: The fruit is full size with food flavor and quality. Colors is a deep red with a light yellow stripe. Tree growth and shape have been excellent. These trees were badly damaged in the 2003 hail storm and are still recovering. Still evaluating for a rating in SW Colorado. 2002 PLANTING.

SPECIAL NOTES

RATING SCALE - 5 STARS *** EXCELLENT POTENTIAL**

4 STARS **** VERY GOOD POTENTIAL
3 STARS *** GOOD POTENTIAL
2 STARS ** POOR POTENTIAL
1 STAR * FORGETABOUTIT

Refer to the enclosed production records for specific yield information.

APPLE ROOTSTOCKS

EMLA 9: Produces a tree that is 35-40% of a standard tree or semi dwarf, does well in heavy soil and wet conditions, needs mechanical support throughout the life of the tree, large fruit.

EMLA 26: Produces a tree that is 40-50% of a standard tree, may need mechanical support as the tree develops and begins cropping, though it roots well and is better anchored.

EMLA 7: Produces a tree that is 50-60% of a standard tree. Winter hardy, disease resistant, needs well drained soil. Develops an extensive root system and does not need mechanical support in our soils but we have several cases of 9 year old Scarlet Galas on EMLA 7 that have started to lean and requiring support.

EMLA 111: Produces a tree that is 70-75% of a standard tree. Winter hardy, adaptable to a wide range of soils, tolerant of drought, excellent for spur type cultivars. Because of the limiting dwarfing, this may not be suited for use on a trellis system. Does not need mechanical support.

Mark: Not advisable to use in SW Colorado due to bud-union incompatibility.